Optics Communications 101 (1993) 456–462
North-Holland

OPTICS
COMMUNICATIONS

Author Index to Volume 101

Akhmediev, N., see J.M. Soto-Crespo 101 (1993) 223
Anderson, D., see A. Sergeev 101 (1993) 219
Andriesh, A., see F. Michelotti 101 (1993) 74
Arnesen, A., see A. Kastberg 101 (1993) 25
Asakura, T., see T. Nakamura 101 (1993) 265
Athale, R.A., X. Yang and H. Szu, Optical implementation of Weber-law neurons based on the dynamic behavior of electron trapping materials 101 (1993) 10

Baïda, F., see J.M. Vigoureux 101 (1993) 297
Bandelow, U. and U. Leonhardt, Light propagation in one-dimensional lossless dielectrica: transfer matrix method and coupled mode theory 101 (1993) 92
Bará, S., see D. Mouriz 101 (1993) 306
Bassi, P., see G. Tartarini 101 (1993) 424
Bayon, J.F., see W.X. Xie 101 (1993) 85
Bei, N., see G.C. Duree Jr. 101 (1993) 397
Bernage, P., see W.X. Xie 101 (1993) 85
Bertolotti, M., see F. Michelotti 101 (1993) 74
Bock, W.J., W. Urbanczyk and M.B. Zaremba, Electronically scanned white-light interferometric strain sensor employing highly birefringent fibers 101 (1993) 157
Bonifacio, R., R.M. Caloi and C. Maroli, The slowly varying envelope approximation revisited 101 (1993) 185
Boothroyd, S.A., see T. Shimura 101 (1993) 124
Bordo, V.G., Spectrum of resonance fluorescence excited by surface polaritons at a gas–solid interface 101 (1993) 37
Borges, N.M., see E.A. Gouveia 101 (1993) 235
Boyer, G.R., see G. Demouchy 101 (1993) 385
Brignon, A. and K.H. Wagner, Polarization state evolution and eigenmode switching in photorefractive BSO 101 (1993) 239
Buccellato, R., N. Lisi and M.M. Michaelis, Colliding shock lens 101 (1993) 350

Cai, B., see B. Lü 101 (1993) 49
Cairns, B. and J.T. Foley, Contribution of the second-order Born approximation to the scattered intensity 101 (1993) 144
Caloi, R.M., see R. Bonifacio 101 (1993) 185
Cerullo, G., see J. Koetke 101 (1993) 195
Cerullo, G., see V. Magni 101 (1993) 365
Chen, H., see X. Wu 101 (1993) 381
Chen, S., see G. Tartarini 101 (1993) 424
Chen, Y., M. Kamath, A. Jain, J. Kumar and S. Tripathy, Cerenkov type phase-matched second harmonic generation in polymeric channel waveguides 101 (1993) 231

Chi, S., see S. Wen 101 (1993) 21
Cho, Y.-H., D.-I. Choi and J.-S. Choi, Cyclotron Cherenkov instability in a dielectric-loaded waveguide 101 (1993) 100
Choi, D.-I., see Y.-H. Cho 101 (1993) 100
Choi, J.-S., see Y.-H. Cho 101 (1993) 100
Christensen, N., R. Leonhardt and J.D. Harvey, Noise characteristics of cross-phase modulation instability light 101 (1993) 205
Chrostowski, J., see T. Shimura 101 (1993) 124
Chumash, V., see F. Michelotti 101 (1993) 74
Cunningham, D., J. Sharpe and K.M. Johnson, Application of an optically addressed spatial light modulator to real-time speckle photography 101 (1993) 311

Danailov, M., see J. Koetke 101 (1993) 195
Delaporte, Y., see M. Johnson 101 (1993) 1
DeLaurentis, J.M., see F.M. Dickey 101 (1993) 303
De Micheli, M.P., see G. Tartarini 101 (1993) 424
Demouchy, G. and G.R. Boyer, Growth rate of second-harmonic generation in optical fibers 101 (1993) 385
Demouchy, G., Second harmonic generation in optical fibers. Experimental study of the self-organised holographic grating length 101 (1993) 391
Dickey, F.M. and J.M. DeLaurentis, Optical neural networks with unipolar weights 101 (1993) 303
Douay, M., see W.X. Xie 101 (1993) 85
Dunn, M.H., see R.R. Moseley 101 (1993) 139
Duree Jr., G.C., J.L. Shultz, N. Bei, G.J. Salamo, E.J. Sharp, G.L. Wood, S. Montgomery and R.R. Neurgaonkar, Enhancing the photorefractive effect 101 (1993) 397

Eason, R.W., see G.W. Ross 101 (1993) 60
Eilers, H., U. Hömmerich, S. Jaffe and W.M. Yen, Refractive index changes in Ti^{3+}-doped glass 101 (1993) 188
Etchepare, J., see D.P. Kien 101 (1993) 53
Evans, J.M., see D.E. Spence 101 (1993) 286

Fazio, E., see F. Michelotti 101 (1993) 74
Foley, J.T., see B. Cairns 101 (1993) 144
Frantzeskakis, D.J. and T. Sphicopoulos, Nonlinear self-phase modulation in optical soliton systems with lumped amplifiers 101 (1993) 337
Freilikher, V., see I. Freund 101 (1993) 247
Freitag, I., I. Kröpke, A. Tünnerman and H. Welling, Electrooptically fast tunable miniature diode-pumped Nd:YAG ring laser 101 (1993) 371
Freund, I., N. Shvartsman and V. Freilikher, Optical dislocation networks in highly random media 101 (1993) 247
Friberg, A.T., Linear mappings of cross-spectral density onto generalized radiance 101 (1993) 416

Gabbanini, C., see M. Weidemüller 101 (1993) 342
Garrett, M.H., see G.W. Ross 101 (1993) 60
Georges, T., see W.X. Xie 101 (1993) 85
Gisin, N., Y. Salama and M.O. Hongler, Polarization mode dispersion for single-mode fibers with polarization dependent losses 101 (1993) 333
Gospodinov, M., see V. Sainov 101 (1993) 5

Gouveia, E.A., N.M. Borges and A.S. Gouveia-Neto, Nonlinear propagation of incoherent light in single-mode semiconductor-doped glass fibers with saturable nonlinearity 101 (1993) 235
Gouveia-Neto, A.S., see E.A. Gouveia 101 (1993) 235
Gross, M., see M. Weidemüller 101 (1993) 342
Grynberg, G. and L.A. Lugiato, Quantum properties of hexagonal patterns 101 (1993) 69

Hare, J., see M. Weidemüller 101 (1993) 342
Haroche, S., see M. Weidemüller 101 (1993) 342
Harris, M., R. Loudon, T.J. Shepherd and J.M. Vaughan, Mode-hopping hysteresis in a single-frequency laser 101 (1993) 432
Harvey, J.D., see N. Christensen 101 (1993) 205
Haselhoff, E.H., Simulation of FEL start-up: the noise-number method 101 (1993) 192
Heijkenskjöld, F., see A. Kastberg 101 (1993) 25
Hömmerich, U., see H. Eilers 101 (1993) 188
Hongler, M.O., see N. Gisin 101 (1993) 333
Hribek, P., see G.W. Ross 101 (1993) 60
Hu, X., see X. Wu 101 (1993) 381
Hu, Z., X. Sun, X. Zeng, Y. Peng, J. Tang, L. Zhang, Q. Wang and L. Zheng, Rb 780 nm Faraday anomalous dispersion optical filter in a strong magnetic field 101 (1993) 175
Huber, G., see J. Koetke 101 (1993) 195

Indebetouw, G., see S.R. Liu 101 (1993) 442

Jackel, S., P. Shalev and R. Lallouz, Experimental and theoretical investigation of statistical fluctuations in phase conjugate mirror reflectivity 101 (1993) 411
Jaffe, S., see H. Eilers 101 (1993) 188
Jain, A., see Y. Chen 101 (1993) 231
Jaroszewicz, Z., see D. Mouriz 101 (1993) 306
Johnson, K.M., see D. Cunningham 101 (1993) 311
Johnson, M. and Y. Delaporte, Fiber vibrometer with three-phase fringe-analysis 101 (1993) 1
Jungner, P., see A. Kastberg 101 (1993) 25

Kafka, J.D., see D.E. Spence 101 (1993) 286
Kamath, M., see Y. Chen 101 (1993) 231
Kastberg, A., P. Villemoes, A. Arnesen, F. Heijkenskjöld, A. Langereis, P. Jungner and S. Linnæus, Observation of frequency beats in optical nutation due to magnetic substate degeneracy 101 (1993) 25
Kien, D.P., J.C. Loulergue and J. Etchepare, Nonlinear response to polariton waves driven in perovskites by femtosecond pulses 101 (1993) 53
Kim, J.-M., see A.T. Rosenberger 101 (1993) 403
Koetke, J., S. Kück, K. Petermann, G. Huber, G. Cerullo, M. Danailov, V. Magni, L.F. Qian and O. Svelto, Quasi-continuous wave laser operation of Cr^{4+}-doped Y_2SiO_5 at room temperature 101 (1993) 195
Kołodziejczyk, A., see D. Mouriz 101 (1993) 306
Kröpke, I., see I. Freitag 101 (1993) 371
Kück, S., see J. Koetke 101 (1993) 195
Kumar, J., see Y. Chen 101 (1993) 231
Kuroda, K., see T. Omatsu 101 (1993) 199

Laenen, R. and A. Laubereau, Coherent propagation of subpicosecond pulses in the mid-infrared in condensed matter 101 (1993) 43
Lallouz, R., see S. Jackel 101 (1993) 411
Langereis, A., see A. Kastberg 101 (1993) 25
Laubereau, A., see R. Laenen 101 (1993) 43
Le Gall, H., see S.P. Pogossian 101 (1993) 322
Leonhardt, R., see N. Christensen 101 (1993) 205
Leonhardt, U., see U. Bandelow 101 (1993) 92
Lerner, L., Calculation and minimization of transition losses in arbitrarily curved waveguides 101 (1993) 327
Li, C., R. Moncorgé, J.C. Souriau and Ch. Wyon, Efficient 2.05 μm room temperature $Y_2SiO_5:Tm^{3+}$ cw laser 101 (1993) 356
Li, G. and L. Liu, Optical one-rule symbolic substitution for pattern processing 101 (1993) 170
Li, Q.X., see W.L. She 101 (1993) 65
Liby, B.W., J.K. McIver and D. Statman, Beam quality measurements of a unidirectional self-pumped phase conjugate mirror 101 (1993) 79
Liby, B.W. and D. Statman, Phase delay in phase-conjugate external cavity lasers 101 (1993) 113
Linnæus, S., see A. Kastberg 101 (1993) 25
Lisak, M., see A. Sergeev 101 (1993) 219
Lisi, N., see R. Buccellato 101 (1993) 350
Liu, L., see G. Li 101 (1993) 170
Liu, S.R. and G. Indebetouw, Spatiotemporal patterns and vortices' motions in phase-conjugate resonators 101 (1993) 442
Lohmann, A.W., J. Ojeda-Castañeda and A. Serrano-Heredia, Synthesis of 1D complex amplitudes using Young's experiment 101 (1993) 17
Loudon, R., see M. Harris 101 (1993) 432
Loulergue, J.C., see D.P. Kien 101 (1993) 53
Lü, B., B. Zhang, B. Cai and C. Yang, A simple method for estimating the number of effectively oscillating modes and weighting factors of mixed-mode laser beams behaving like gaussian Schell-model beams 101 (1993) 49
Lugiato, L.A., see G. Grynberg 101 (1993) 69

Magni, V., see J. Koetke 101 (1993) 195
Magni, V., G. Cerullo and S.D. Silvestri, Closed form gaussian beam analysis of resonators containing a Kerr medium for femtosecond lasers 101 (1993) 365
Marinova, V., see V. Sainov 101 (1993) 5
Maroli, C., see R. Bonifacio 101 (1993) 185
McIver, J.K., see B.W. Liby 101 (1993) 79
Mendlovic, D., see H.M. Ozaktas 101 (1993) 163
Menhart, S., see H. Sun 101 (1993) 361
Michaelis, M.M., see R. Buccellato 101 (1993) 350
Michelotti, F., E. Fazio, F. Senesi, M. Bertolotti, V. Chumash and A. Andriesh, Nonlinearity and photostructural changes in glassy As_2S_3 thin films 101 (1993) 74
Mo, D., see W.L. She 101 (1993) 65
Moncorgé, R., see C. Li 101 (1993) 356
Montgomery, S., see G.C. Duree Jr. 101 (1993) 397

Montiel, F. and M. Neviere, Electromagnetic study of the diffraction of light by a mask used in photolithography 101 (1993) 151
Moseley, R.R., B.D. Sinclair and M.H. Dunn, Enhanced conversion efficiency in three-wave mixing via electromagnetically reduced fundamental wave absorption 101 (1993) 139
Mouriz, D., Z. Jaroszewicz, A. Kołodziejczyk and S. Bará, Analytic design of computer-generated holograms focusing in nonplanar curves 101 (1993) 306
Myslinski, P., see T. Shimura 101 (1993) 124

Nakamura, T. and T. Asakura, First-order phase statistics of gaussian speckles produced by a curved surface in the diffraction region 101 (1993) 265
Neurgaonkar, R.R., see G.C. Duree Jr. 101 (1993) 397
Neviere, M., see F. Montiel 101 (1993) 151
Niay, P., see W.X. Xie 101 (1993) 85

Ojeda-Castañeda, J., see A.W. Lohmann 101 (1993) 17
Omatsu, T., T. Takase and K. Kuroda, Intra-pulse decrease of M^2 of a copper vapor laser beam 101 (1993) 199
Orszag, M. and R. Ramírez, Trapping states and measurement 101 (1993) 377
Ostrowsky, D.B., see G. Tartarini 101 (1993) 424
Ozaktas, H.M. and D. Mendlovic, Fourier transforms of fractional order and their optical interpretation 101 (1993) 163

Peik, E., see C.A. Schrama 101 (1993) 32
Peng, Y., see Z. Hu 101 (1993) 175
Peri, D., see Y. Pinhasi 101 (1993) 277
Perrone, M.R., A. Piegari and S. Scaglione, On the peak reflectivity of supergaussian mirrors for unstable resonators applied to a XeCl laser 101 (1993) 213
Petermann, K., see J. Koetke 101 (1993) 195
Piegari, A., see M.R. Perrone 101 (1993) 213
Pinhasi, Y. and D. Peri, A generalized analysis of binary halftone representation of images 101 (1993) 277
Pogossian, S.P. and H. le Gall, A planar directional coupler consisting of two identical leaky waveguides 101 (1993) 322

Qian, L.F., see J. Koetke 101 (1993) 195

Ramírez, R., see M. Orszag 101 (1993) 377
Rosenberger, A.T. and J.-M. Kim, Transit-induced optical multistability 101 (1993) 403
Ross, G.W., P. Hribek, R.W. Eason, M.H. Garrett and D. Rytz, Impurity enhanced self-pumped phase conjugation in the near infrared in 'blue' $BaTiO_3$ 101 (1993) 60
Rytz, D., see G.W. Ross 101 (1993) 60

Sainov, S., see V. Sainov 101 (1993) 5
Sainov, V., M. Gospodinov, S. Sainov and V. Marinova, Holographic characteristics of doped BTO crystals 101 (1993) 5
Salama, Y., see N. Gisin 101 (1993) 333
Salamo, G.J., see G.C. Duree Jr. 101 (1993) 397
Scaglione, S., see M.R. Perrone 101 (1993) 213
Schrama, C.A., E. Peik, W.W. Smith and H. Walther, Novel miniature ion traps 101 (1993) 32

Senesi, F., see F. Michelotti 101 (1993) 74
Sergeev, A., E. Vanin, D. Anderson, M. Lisak and L. Stenflo, Delocalization and radiative damping of solitons in media with a dynamical nonlinear response 101 (1993) 219
Serrano-Heredia, A., see A.W. Lohmann 101 (1993) 17
Shalev, P., see S. Jackel 101 (1993) 411
Shao, Ż., see X. Wu 101 (1993) 381
Sharp, E.J., see G.C. Duree Jr. 101 (1993) 397
Sharpe, J., see D. Cunningham 101 (1993) 311
She, W.L., Q. Wu, Q.X. Li, Z.X. Yu and D. Mo, Picosecond light pulse shaping in photorefractive crystal by two-wave coupling 101 (1993) 65
Shepherd, T.J., see M. Harris 101 (1993) 432
Shi, L.P. and J.Y. Wang, Measurement of electrooptic constants with the reflection intensity method 101 (1993) 347
Shimura, T., S.A. Boothroyd, J. Chrostowski and P. Myslinski, Investigation of grating dynamics using a phase conjugate mirror 101 (1993) 124
Shong, Y., see X. Wu 101 (1993) 381
Shultz, J.L., see G.C. Duree Jr. 101 (1993) 397
Shvartsman, N., see I. Freund 101 (1993) 247
Sibbett, W., see D.E. Spence 101 (1993) 286
Silvestri, S.D., see V. Magni 101 (1993) 365
Sinclair, B.D., see R.R. Moseley 101 (1993) 139
Sleat, W.E., see D.E. Spence 101 (1993) 286
Smith, W.W., see C.A. Schrama 101 (1993) 32
Soto-Crespo, J.M. and N. Akhmediev, Description of the self-focusing and collapse effects by a modified nonlinear Schrödinger equation 101 (1993) 223
Souriau, J.C., see C. Li 101 (1993) 356
Spence, D.E., W.E. Sleat, J.M. Evans, W. Sibbett and J.D. Kafka, Time synchronisation measurements between two self-modelocked Ti:sapphire lasers 101 (1993) 286
Sphicopoulos, T., see D.J. Frantzeskakis 101 (1993) 337
Statman, D., see B.W. Liby 101 (1993) 79, 113
Stenflo, L., see A. Sergeev 101 (1993) 219
Sun, H. and S. Menhart, A simple theory on the gain saturation effect of large scale longitudinal photon density distribution in semiconductor lasers 101 (1993) 361
Sun, X., see Z. Hu 101 (1993) 175
Svelto, O., see J. Koetke 101 (1993) 195
Szu, H., see R.A. Athale 101 (1993) 10

Takase, T., see T. Omatsu 101 (1993) 199
Tang, J., see Z. Hu 101 (1993) 175
Tartarini, G., P. Bassi, S. Chen, M.P. de Micheli and D.B. Ostrowsky, Calculation of hybrid modes in uniaxial planar optical waveguides: application to proton exchanged lithium niobate waveguides 101 (1993) 424
Toyooka, S., see Q.-C. Zhang 101 (1993) 133
Tripathy, S., see Y. Chen 101 (1993) 231
Tünnerman, A., see I. Freitag 101 (1993) 371

Ujihara, K., Decay rate dependence of the spontaneous emission pattern from an atom in an optical microcavity 101 (1993) 179

Urbanczyk, W., see W.J. Bock 101 (1993) 157

Vanin, E., see A. Sergeev 101 (1993) 219
Vaughan, J.M., see M. Harris 101 (1993) 432
Vigoureux, J.M. and F. Baïda, Critical size of multi-resonant optical tunnel structures. Application to nonradiative effects 101 (1993) 297
Villemoes, P., see A. Kastberg 101 (1993) 25

Wagner, K.H., see A. Brignon 101 (1993) 239
Walther, H., see C.A. Schrama 101 (1993) 32
Wang, J.Y., see L.P. Shi 101 (1993) 347
Wang, Q., see Z. Hu 101 (1993) 175
Weidemüller, M., C. Gabbanini, J. Hare, M. Gross and S. Haroche, A beam of laser-cooled lithium Rydberg atoms for precision microwave spectroscopy 101 (1993) 342
Welling, H., see I. Freitag 101 (1993) 371
Wen, M., see S. Yin 101 (1993) 317
Wen, S. and S. Chi, Study of a lightwave system consisting entirely of erbium-doped fiber 101 (1993) 21
Wood, G.L., see G.C. Duree Jr. 101 (1993) 397
Wu, Q., see W.L. She 101 (1993) 65
Wu, X., X. Hu, Z. Shao, H. Chen and Y. Shong, Two mutually incoherent beams coupling by self-pumped phase-conjugation in a KNSBN crystal 101 (1993) 381
Wyon, Ch., see C. Li 101 (1993) 356

Xie, W.X., M. Douay, P. Bernage, P. Niay, J.F. Bayon and T. Georges, Second order diffraction efficiency of Bragg gratings written within germanosilicate fibres 101 (1993) 85

Yamaguchi, I., see Q.-C. Zhang 101 (1993) 133
Yang, C., see B. Lü 101 (1993) 49
Yang, X., see R.A. Athale 101 (1993) 10
Yang, Z., see S. Yin 101 (1993) 317
Yen, W.M., see H. Eilers 101 (1993) 188
Yin, S., H. Zhou, F. Zhao, M. Wen, Z. Yang, J. Zhang and F.T.S. Yu, Wavelength multiplexed holographic storage in a sensitive photorefractive crystal using a visible-light tunable diode laser 101 (1993) 317
Yu, F.T.S., see S. Yin 101 (1993) 317
Yu, Z.X., see W.L. She 101 (1993) 65

Zaremba, M.B., see W.J. Bock 101 (1993) 157
Zeng, X., see Z. Hu 101 (1993) 175
Zhang, B., see B. Lü 101 (1993) 49
Zhang, J., see S. Yin 101 (1993) 317
Zhang, L., see Z. Hu 101 (1993) 175
Zhang, Q.-C., S. Toyooka and I. Yamaguchi, Dynamic strain measurement by optical speckle correlation method using LCTV panels 101 (1993) 133
Zhao, F., see S. Yin 101 (1993) 317
Zheng, L., see Z. Hu 101 (1993) 175
Zhou, H., see S. Yin 101 (1993) 317

Optics Communications 101 (1993) 463–466
North-Holland

OPTICS
COMMUNICATIONS

Subject Index to Volume 101

Propagation and transmission in homogeneous media

Fiber vibrometer with three-phase fringe-analysis, M. Johnson and Y. Delaporte 101 (1993) 1
Light propagation in one-dimensional lossless dielectrica: transfer matrix method and coupled mode theory, U. Bandelow and U. Leonhardt 101 (1993) 92
Dynamic strain measurement by optical speckle correlation method using LCTV panels, Q.-C. Zhang, S. Toyooka and I. Yamaguchi 101 (1993) 133
Enhanced conversion efficiency in three-wave mixing via electromagnetically reduced fundamental wave absorption, R.R. Moseley, B.D. Sinclair and M.H. Dunn 101 (1993) 139
Contribution of the second-order Born approximation to the scattered intensity, B. Cairns and J.T. Foley 101 (1993) 144
Electromagnetic study of the diffraction of light by a mask used in photolithography, F. Montiel and M. Neviere 101 (1993) 151
Polarization state evolution and eigenmode switching in photorefractive BSO, A. Brignon and K.H. Wagner 101 (1993) 239
Critical size of multi-resonant optical tunnel structures. Application to nonradiative effects, J.M. Vigoureux and F. Baïda 101 (1993) 297
Linear mappings of cross-spectral density onto generalized radiance, A.T. Friberg 101 (1993) 416

Propagation and transmission in inhomogeneous media

Optical dislocation networks in highly random media, I. Freund, N. Shvartsman and V. Freilikher 101 (1993) 247

Optical information, image formation and analysis, optical computing

Holographic characteristics of doped BTO crystals, V. Sainov, M. Gospodinov, S. Sainov and V. Marinova 101 (1993) 5
Optical implementation of Weber-law neurons based on the dynamic behavior of electron trapping materials, R.A. Athale, X. Yang and H. Szu 101 (1993) 10
Synthesis of 1D complex amplitudes using Young's experiment, A.W. Lohmann, J. Ojeda-Castañeda and A. Serrano-Heredia 101 (1993) 17
Electronically scanned white-light interferometric strain sensor employing highly birefringent fibers, W.J. Bock, W. Urbanczyk and M.B. Zaremba 101 (1993) 157
Fourier transforms of fractional order and their optical interpretation, H.M. Ozaktas and D. Mendlovic 101 (1993) 163
Optical one-rule symbolic substitution for pattern processing, G. Li and L. Liu 101 (1993) 170
First-order phase statistics of gaussian speckles produced by a curved surface in the diffraction region, T. Nakamura and T. Asakura 101 (1993) 265

A generalized analysis of binary halftone representation of images, Y. Pinhasi and D. Peri 101 (1993) 277
Optical neural networks with unipolar weights, F.M. Dickey and J.M. DeLaurentis 101 (1993) 303
Analytic design of computer-generated holograms focusing in nonplanar curves, D. Mouriz, Z. Jaroszewicz, A. Kołodziejczyk and S. Bará 101 (1993) 306
Application of an optically addressed spatial light modulator to real-time speckle photography, D. Cunningham, J. Sharpe and K.M. Johnson 101 (1993) 311
Wavelength multiplexed holographic storage in a sensitive photorefractive crystal using a visible-light tunable diode laser, S. Yin, H. Zhou, F. Zhao, M. Wen, Z. Yang, J. Zhang and F.T.S. Yu 101 (1993) 317

Optical communications

Study of a lightwave system consisting entirely of erbium-doped fiber, S. Wen and S. Chi 101 (1993) 21
A planar directional coupler consisting of two identical leaky waveguides, S.P. Pogossian and H. Le Gall 101 (1993) 322
Calculation and minimization of transition losses in arbitrarily curved waveguides, L. Lerner 101 (1993) 327
Polarization mode dispersion for single-mode fibers with polarization dependent losses, N. Gisin, Y. Salama and M.O. Hongler 101 (1993) 333
Nonlinear self-phase modulation in optical soliton systems with lumped amplifiers, D.J. Frantzeskakis and T. Sphicopoulos 101 (1993) 337
Calculation of hybrid modes in uniaxial planar optical waveguides: application to proton exchanged lithium niobate waveguides, G. Tartarini, P. Bassi, S. Chen, M.P. De Micheli and D.B. Ostrowsky 101 (1993) 424

Atomic and molecular physics

Observation of frequency beats in optical nutation due to magnetic substate degeneracy, A. Kastberg, P. Villemoes, A. Arnesen, F. Heijkenskjöld, A. Langereis, P. Jungner and S. Linnæus 101 (1993) 25
Novel miniature ion traps, C.A. Schrama, E. Peik, W.W. Smith and H. Walther 101 (1993) 32
Spectrum of resonance fluorescence excited by surface polaritons at a gas–solid interface, V.G. Bordo 101 (1993) 37
Coherent propagation of subpicosecond pulses in the mid-infrared in condensed matter, R. Laenen and A. Laubereau 101 (1993) 43
Rb 780 nm Faraday anomalous dispersion optical filter in a strong magnetic field, Z. Hu, X. Sun, X. Zeng, Y. Peng, J. Tang, L. Zhang, Q. Wang and L. Zheng 101 (1993) 175
Decay rate dependence of the spontaneous emission pattern from an atom in an optical microcavity, K. Ujihara 101 (1993) 179
The slowly varying envelope approximation revisited, R. Bonifacio, R.M. Caloi and C. Maroli 101 (1993) 185
A beam of laser-cooled lithium Rydberg atoms for precision microwave spectroscopy, M. Weidemüller, C. Gabbanini, J. Hare, M. Gross and S. Haroche 101 (1993) 342

Condensed matter

Nonlinear response to polariton waves driven in perovskites by femtosecond pulses, D.P. Kien, J.C. Loulergue and J. Etchepare 101 (1993) 53

Refractive index changes in Ti^{3+}-doped glass, H. Eilers, U. Hömmerich, S. Jaffe and W.M. Yen 101 (1993) 188
Measurement of electrooptic constants with the reflection intensity method, L.P. Shi and J.Y. Wang 101 (1993) 347

Plasmas

Colliding shock lens, R. Buccellato, N. Lisi and M.M. Michaelis 101 (1993) 350

Lasers

A simple method for estimating the number of effectively oscillating modes and weighting factors of mixed-mode laser beams behaving like gaussian Schell-model beams, B. Lü, B. Zhang, B. Cai and C. Yang 101 (1993) 49
Cyclotron Cherenkov instability in a dielectric-loaded waveguide, Y.-H. Cho, D.-I. Choi and J.-S. Choi 101 (1993) 100
Simulation of FEL start-up: the noise-number method, E.H. Haselhoff 101 (1993) 192
Quasi-continuous wave laser operation of Cr^{4+}-doped Y_2SiO_5 at room temperature, J. Koetke, S. Kück, K. Petermann, G. Huber, G. Cerullo, M. Danailov, V. Magni, L.F. Qian and O. Svelto 101 (1993) 195
Intra-pulse decrease of M^2 of a copper vapor laser beam, T. Omatsu, T. Takase and K. Kuroda 101 (1993) 199
Noise characteristics of cross-phase modulation instability light, N. Christensen, R. Leonhardt and J.D. Harvey 101 (1993) 205
On the peak reflectivity of supergaussian mirrors for unstable resonators applied to a XeCl laser, M.R. Perrone, A. Piegari and S. Scaglione 101 (1993) 213
Time synchronisation measurements between two self-modelocked Ti:sapphire lasers, D.E. Spence, W.E. Sleat, J.M. Evans, W. Sibbett and J.D. Kafka 101 (1993) 286
Efficient 2.05 μm room temperature $Y_2SiO_5:Tm^{3+}$ cw laser, C. Li, R. Moncorgé, J.C. Souriau and Ch. Wyon 101 (1993) 356
A simple theory on the gain saturation effect of large scale longitudinal photon density distribution in semiconductor lasers, H. Sun and S. Menhart 101 (1993) 361
Closed form gaussian beam analysis of resonators containing a Kerr medium for femtosecond lasers, V. Magni, G. Cerullo and S.D. Silvestri 101 (1993) 365
Electrooptically fast tunable miniature diode-pumped Nd:YAG ring laser, I. Freitag, I. Kröpke, A. Tünnerman and H. Welling 101 (1993) 371
Trapping states and measurement, M. Orszag and R. Ramírez 101 (1993) 377
Mode-hopping hysteresis in a single-frequency laser, M. Harris, R. Loudon, T.J. Shepherd and J.M. Vaughan 101 (1993) 432

Nonlinear optics

Nonlinear response to polariton waves driven in perovskites by femtosecond pulses, D.P. Kien, J.C. Loulergue and J. Etchepare 101 (1993) 53

Impurity enhanced self-pumped phase conjugation in the near infrared in 'blue' $BaTiO_3$, G.W. Ross, P. Hribek, R.W. Eason, M.H. Garrett and D. Rytz 101 (1993) 60
Picosecond light pulse shaping in photorefractive crystal by two-wave coupling, W.L. She, Q. Wu, Q.X. Li, Z.X. Yu and D. Mo 101 (1993) 65
Quantum properties of hexagonal patterns, G. Grynberg and L.A. Lugiato 101 (1993) 69
Nonlinearity and photostructural changes in glassy As_2S_3 thin films, F. Michelotti, E. Fazio, F. Senesi, M. Bertolotti, V. Chumash and A. Andriesh 101 (1993) 74
Beam quality measurements of a unidirectional self-pumped phase conjugate mirror, B.W. Liby, J.K. McIver and D. Statman 101 (1993) 79
Second order diffraction efficiency of Bragg gratings written within germanosilicate fibres, W.X. Xie, M. Douay, P. Bernage, P. Niay, J.F. Bayon and T. Georges 101 (1993) 85
Phase delay in phase-conjugate external cavity lasers, B.W. Liby and D. Statman 101 (1993) 113
Investigation of grating dynamics using a phase conjugate mirror, T. Shimura, S.A. Boothroyd, J. Chrostowski and P. Myslinski 101 (1993) 124
Delocalization and radiative damping of solitons in media with a dynamical nonlinear response, A. Sergeev, E. Vanin, D. Anderson, M. Lisak and L. Stenflo 101 (1993) 219
Description of the self-focusing and collapse effects by a modified nonlinear Schrödinger equation, J.M. Soto-Crespo and N. Akhmediev 101 (1993) 223
Cerenkov type phase-matched second harmonic generation in polymeric channel waveguides, Y. Chen, M. Kamath, A. Jain, J. Kumar and S. Tripathy 101 (1993) 231
Nonlinear propagation of incoherent light in single-mode semiconductor-doped glass fibers with saturable nonlinearity, E.A. Gouveia, N.M. Borges and A.S. Gouveia-Neto 101 (1993) 235
Polarization state evolution and eigenmode switching in photorefractive BSO, A. Brignon and K.H. Wagner 101 (1993) 239
Two mutually incoherent beams coupling by self-pumped phase-conjugation in a KNSBN crystal, X. Wu, X. Hu, Z. Shao, H. Chen and Y. Shong 101 (1993) 381
Growth rate of second-harmonic generation in optical fibers, G. Demouchy and G.R. Boyer 101 (1993) 385
Second harmonic generation in optical fibers. Experimental study of the self-organised holographic grating length, G. Demouchy 101 (1993) 391
Enhancing the photorefractive effect, G.C. Duree Jr., J.L. Shultz, N. Bei, G.J. Salamo, E.J. Sharp, G.L. Wood, S. Montgomery and R.R. Neurgaonkar 101 (1993) 397
Transit-induced optical multistability, A.T. Rosenberger and J.-M. Kim 101 (1993) 403
Experimental and theoretical investigation of statistical fluctuations in phase conjugate mirror reflectivity, S. Jackel, P. Shalev and R. Lallouz 101 (1993) 411
Spatiotemporal patterns and vortices' motions in phase-conjugate resonators, S.R. Liu and G. Indebetouw 101 (1993) 442